SEQUENCE LISTING

(1) GENERAL INFORMATION

(i) APPLICANT: Chappell, Joseph
Back, Kyoungwhan

(ii) TITLE OF THE INVENTION: CHIMERIC ISOPRENOID SYNTHASES
AND USES THEREOF

(iii) NUMBER OF SEQUENCES: 6

(iv) CORRESPONDENCE ADDRESS:
  (A) ADDRESSEE: Clark & Elbing LLP
  (B) STREET: 176 Federal Street
  (C) CITY: Boston
  (D) STATE: MA
  (E) COUNTRY: US
  (F) ZIP: 02110

(v) COMPUTER READABLE FORM:
  (A) MEDIUM TYPE: Diskette
  (B) COMPUTER: IBM Compatible
  (C) OPERATING SYSTEM: MS-DOS
  (D) SOFTWARE: FastSEQ for Windows Version 2.0

(vi) CURRENT APPLICATION DATA:
  (A) APPLICATION NUMBER:08/631,341
  (B) FILING DATE: 12-APR-1996
  (C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:
  (A) APPLICATION NUMBER:
  (B) FILING DATE:

(viii) ATTORNEY/AGENT INFORMATION:
  (A) NAME: Clark, Paul T
  (B) REGISTRATION NUMBER: 30,162
  (C) REFERENCE/DOCKET NUMBER: 07678/011001

(ix) TELECOMMUNICATION INFORMATION:
  (A) TELEPHONE: 617-428-0200
  (B) TELEFAX: 617-428-7045
  (C) TELEX:

  (2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 30 base pairs
  (B) TYPE: nucleic acid

```
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: DNA (oligonucleotide)

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GGGATCGATG ACATAGCCAC GTATGAGGTT                              30

        (2) INFORMATION FOR SEQ ID NO:2:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 17 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: DNA (oligonucleotide)

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

AATACGACTC ACTATAG                                            17

        (2) INFORMATION FOR SEQ ID NO:3:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 27 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: DNA (oligonucleotide)

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CGAGTCAACA TGGTTTATTG AGGGATA                                 27

        (2) INFORMATION FOR SEQ ID NO:4:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 28 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: DNA (oligonucleotide)

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

TATTCTAGAT CTCTATGACG ATTATGAA                                28
```

(2) INFORMATION FCR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 42 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: single
  (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (oligonucleotide)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GGGAGCTCGA ATTCCATGGC CTCAGCAGCA GTTGCAAACT AT   42

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 30 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: single
  (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (oligonucleotide)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GGGATCGATA ACTCTGCATA ATGTAGCATT   30